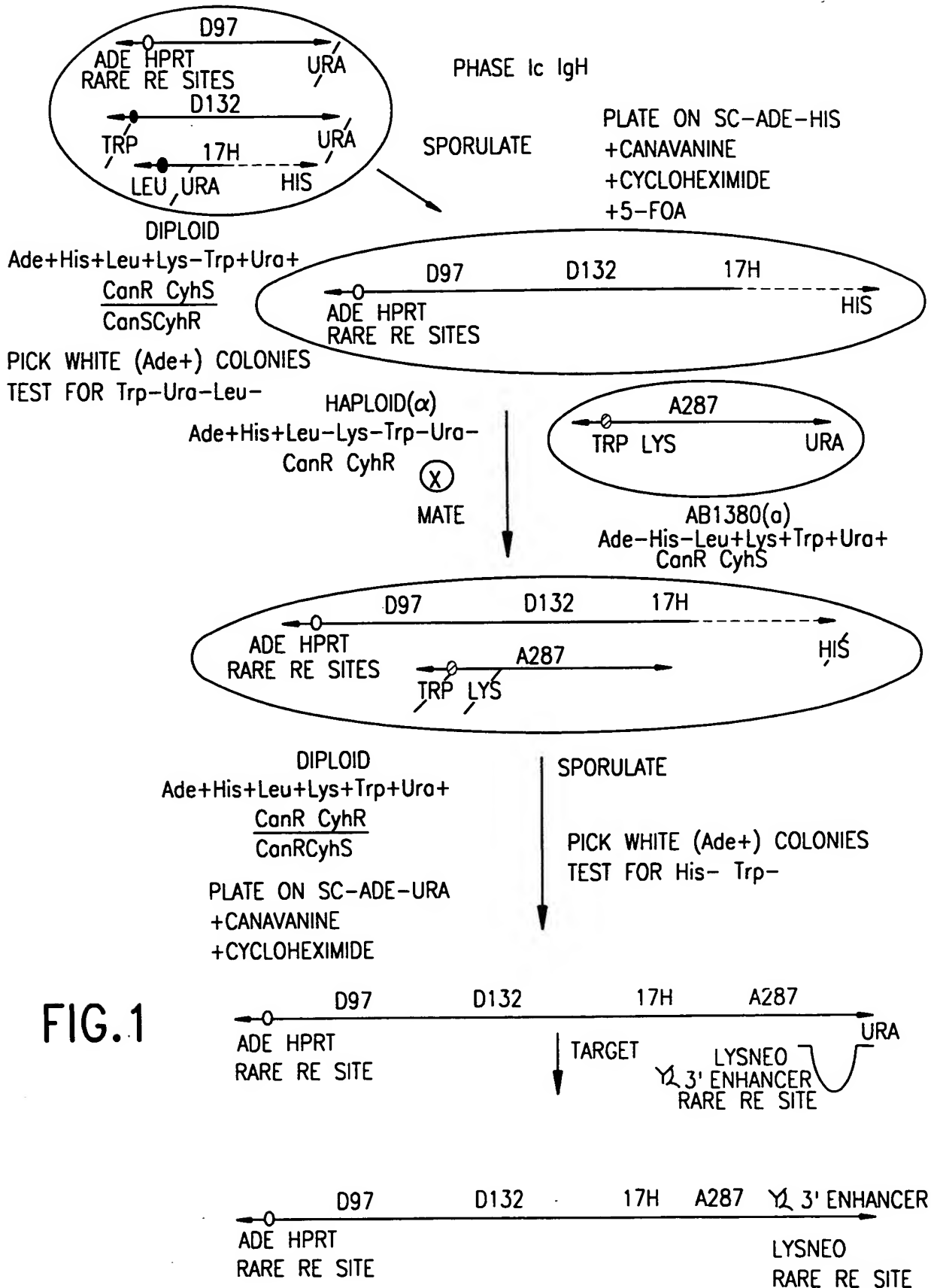
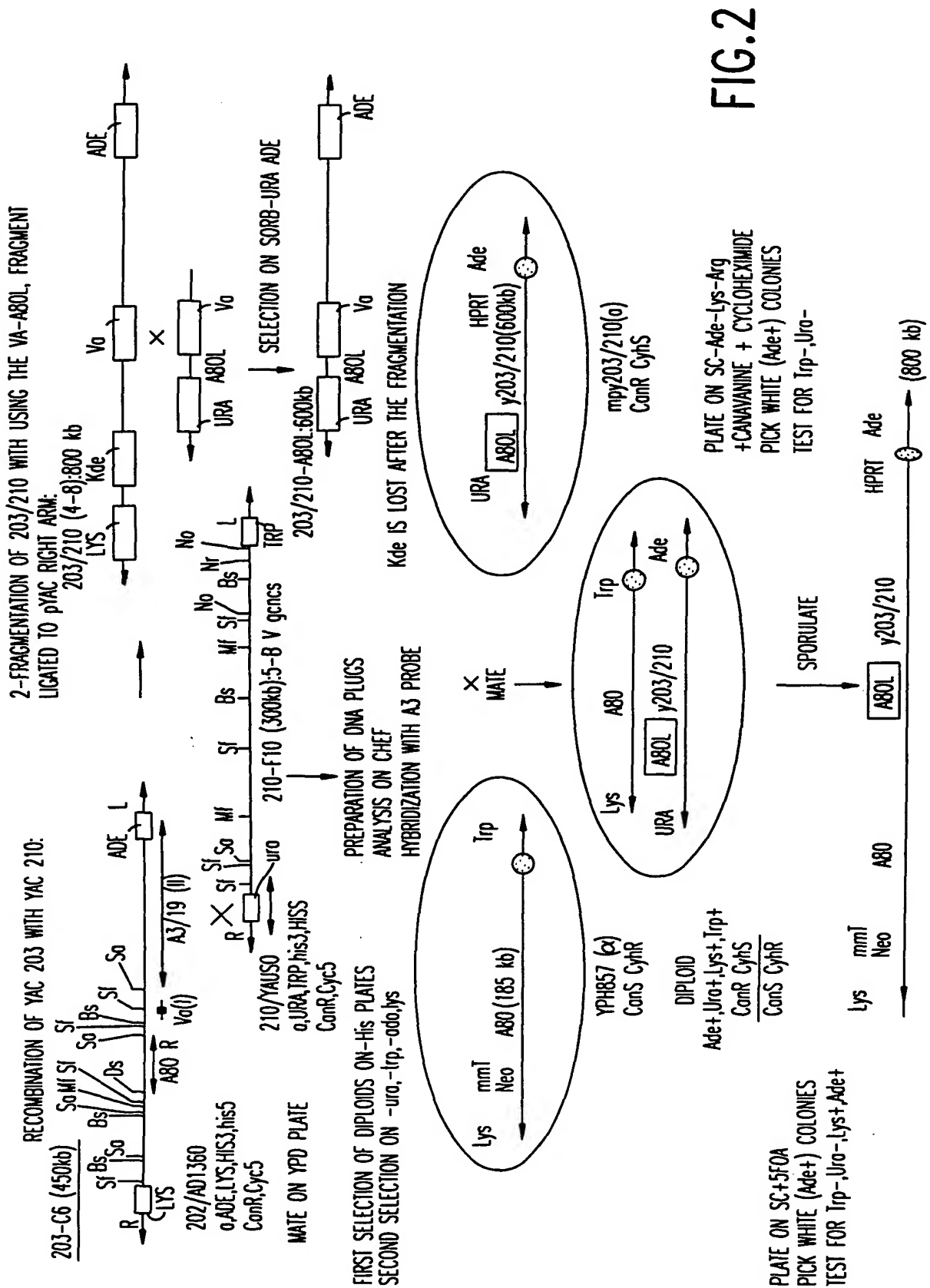


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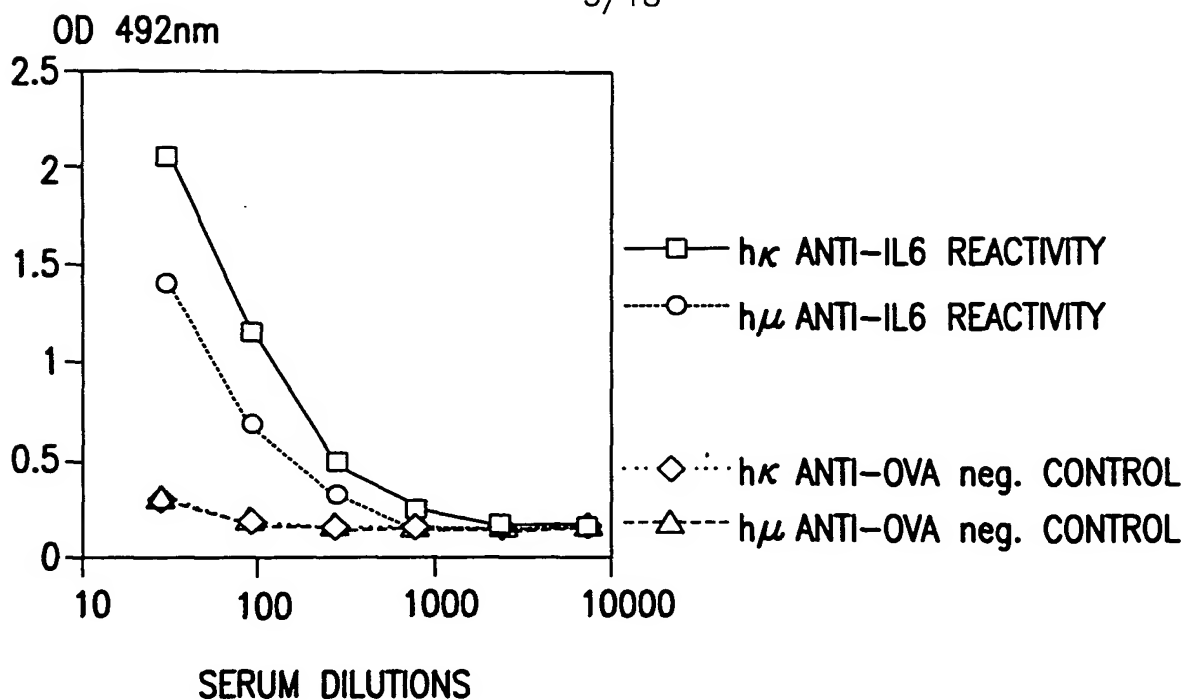


FIG.3

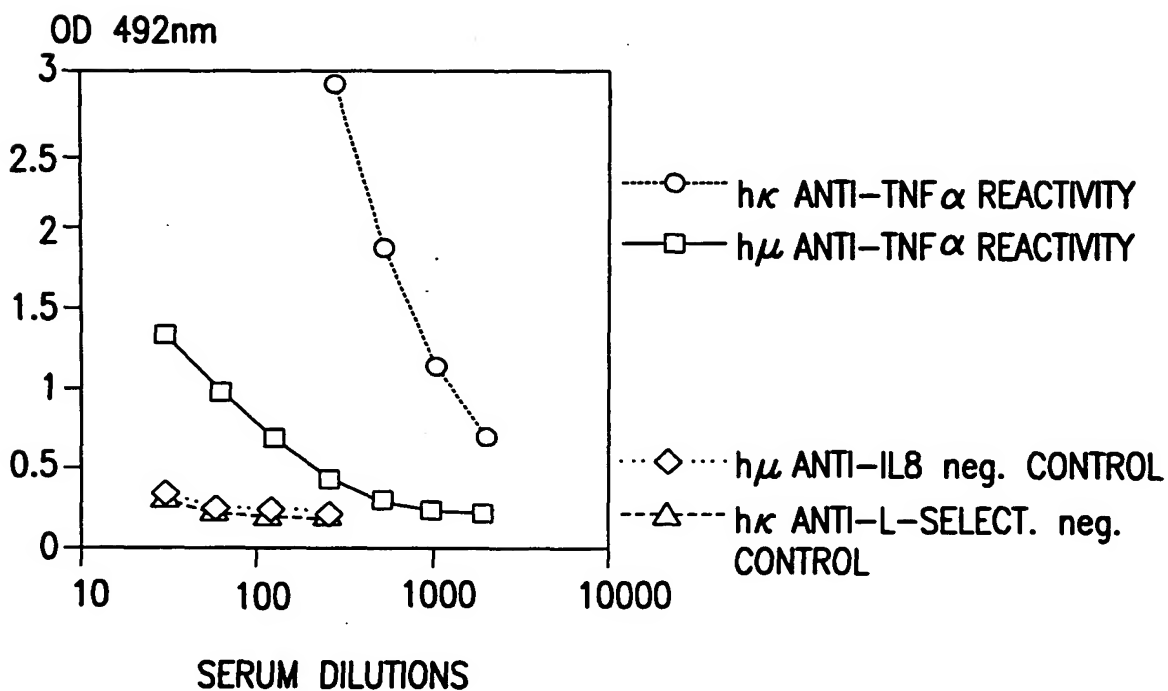


FIG.4

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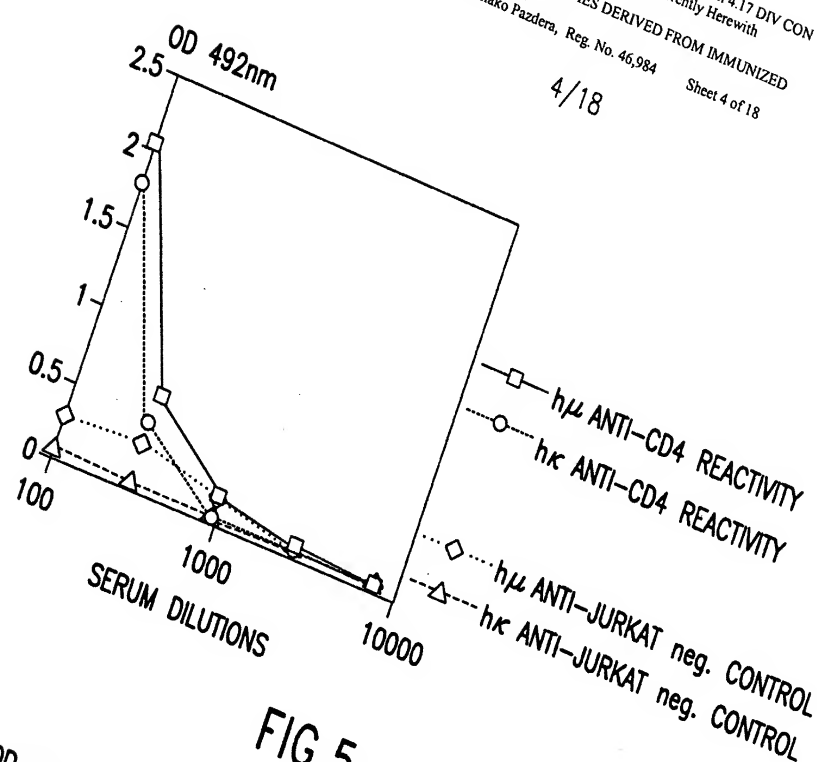


FIG. 5

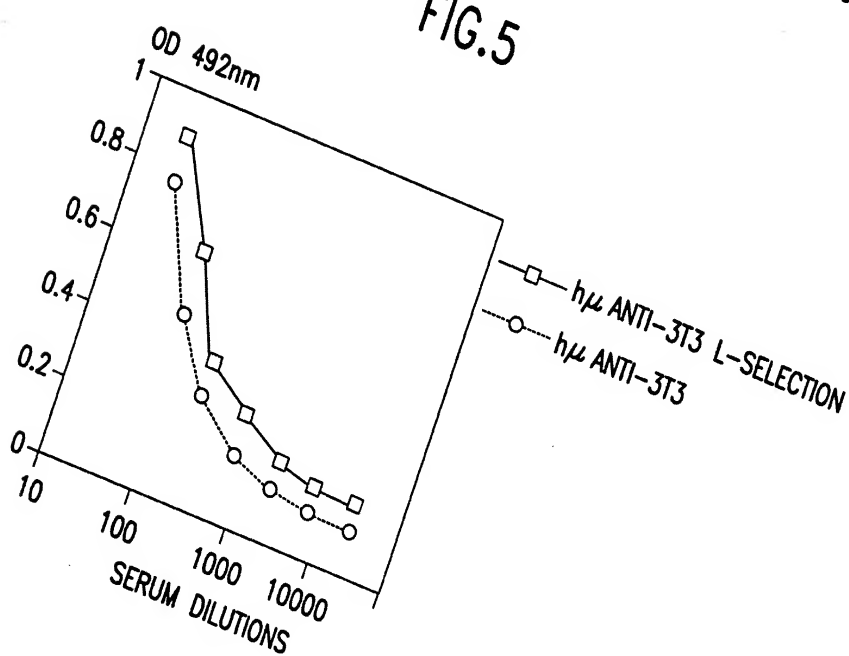


FIG. 6

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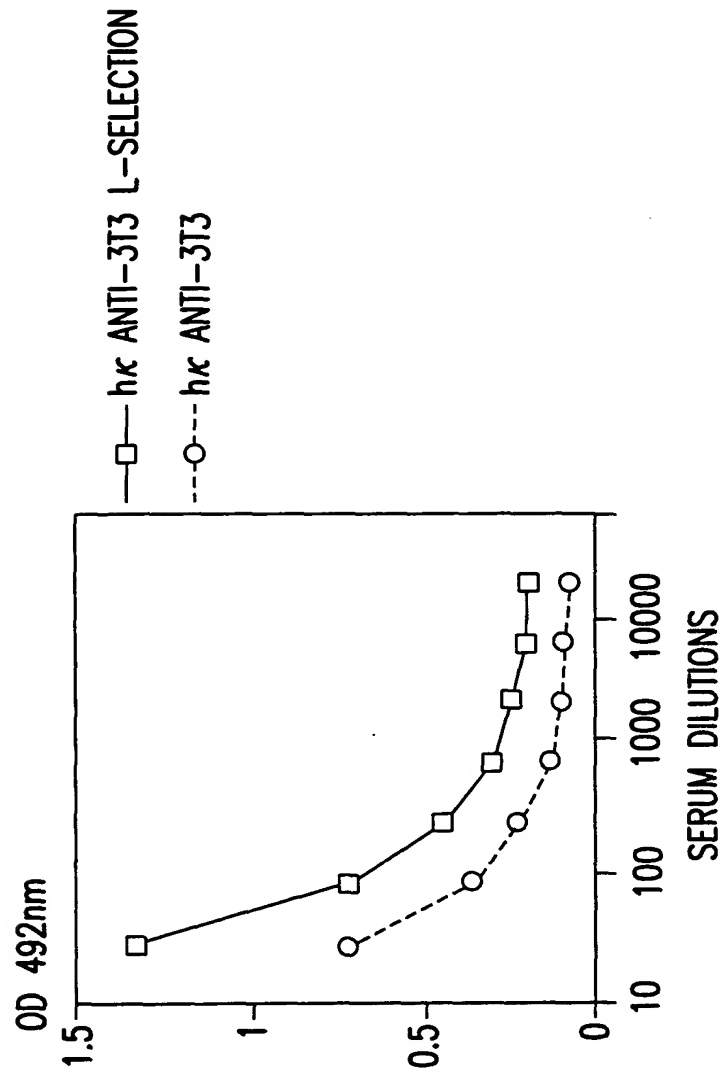


FIG.7

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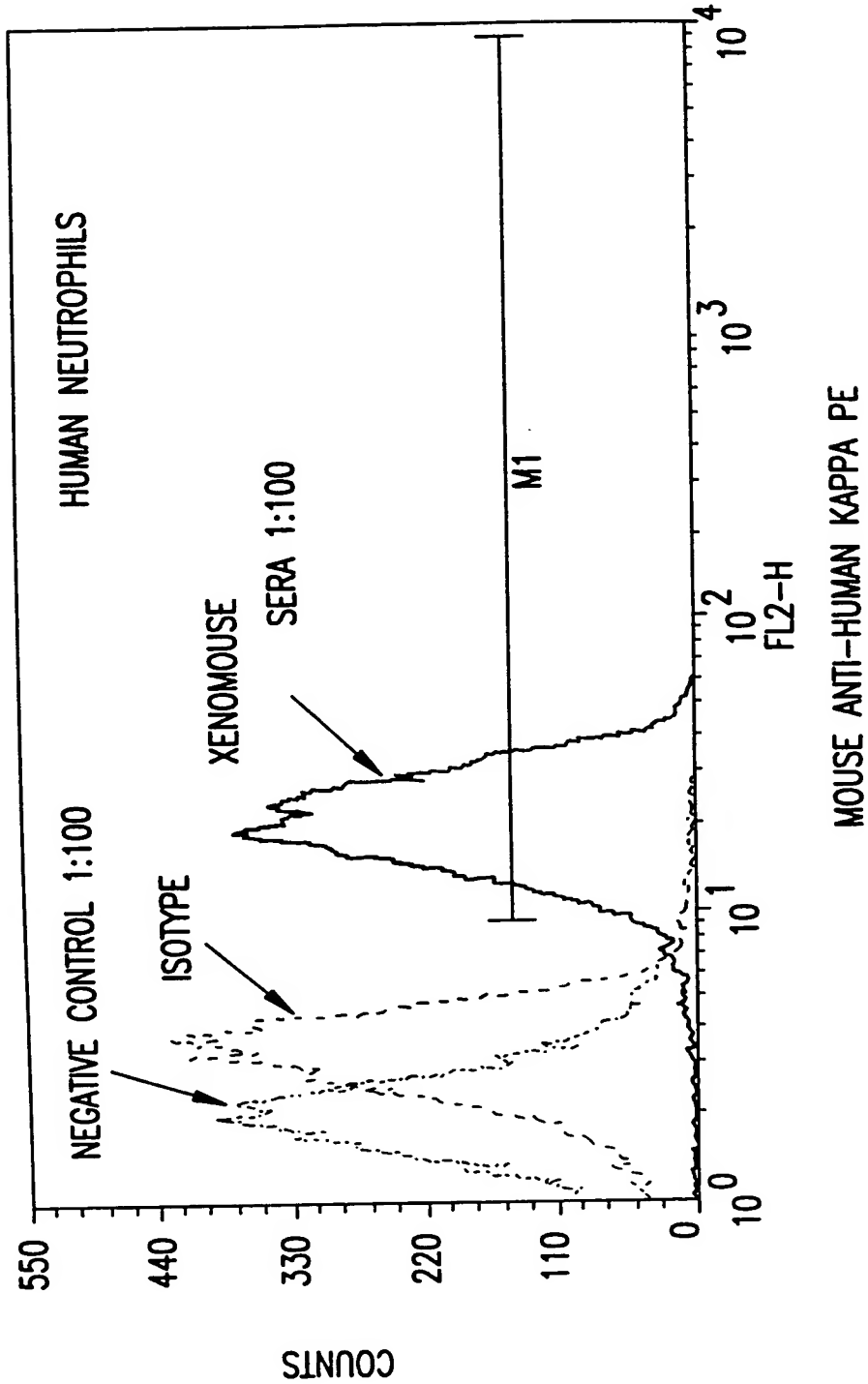


FIG.8

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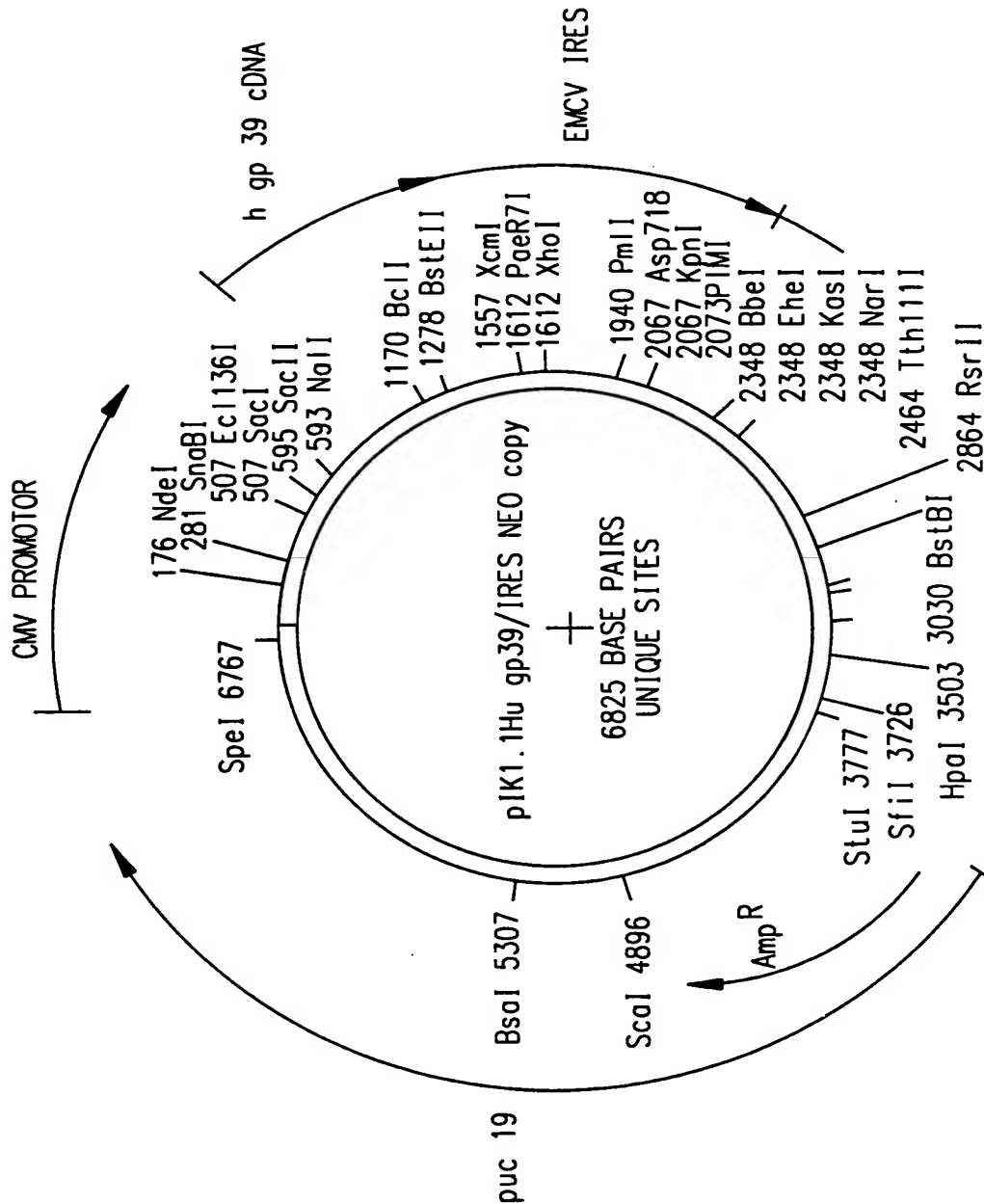


FIG.9

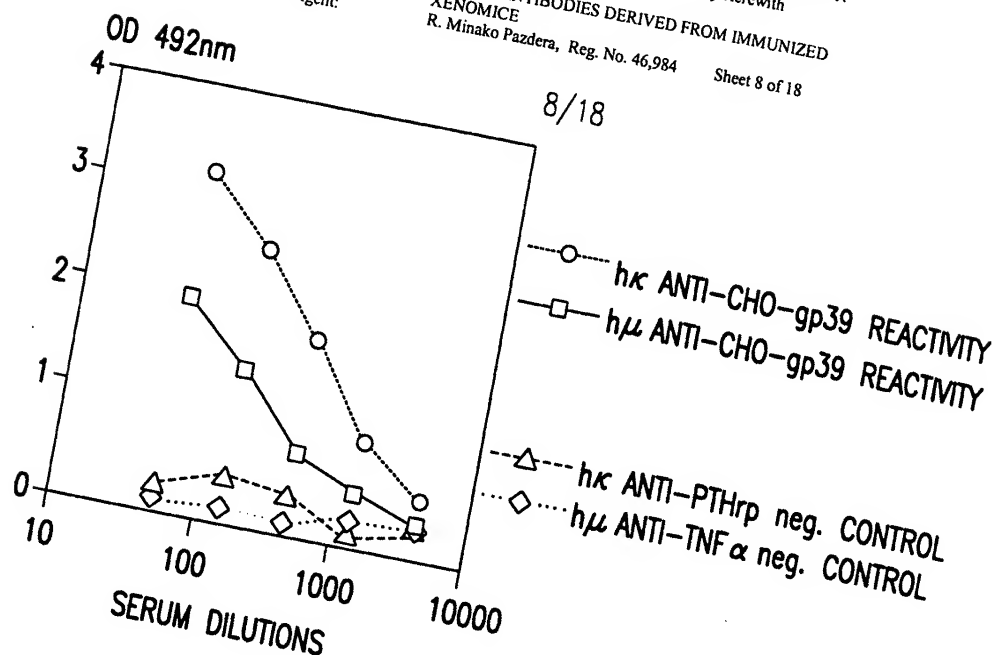


FIG.10

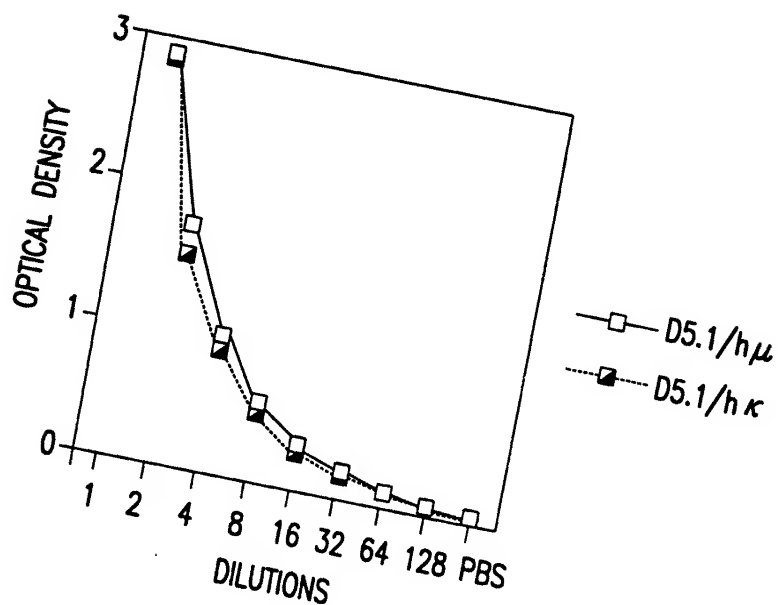


FIG.11



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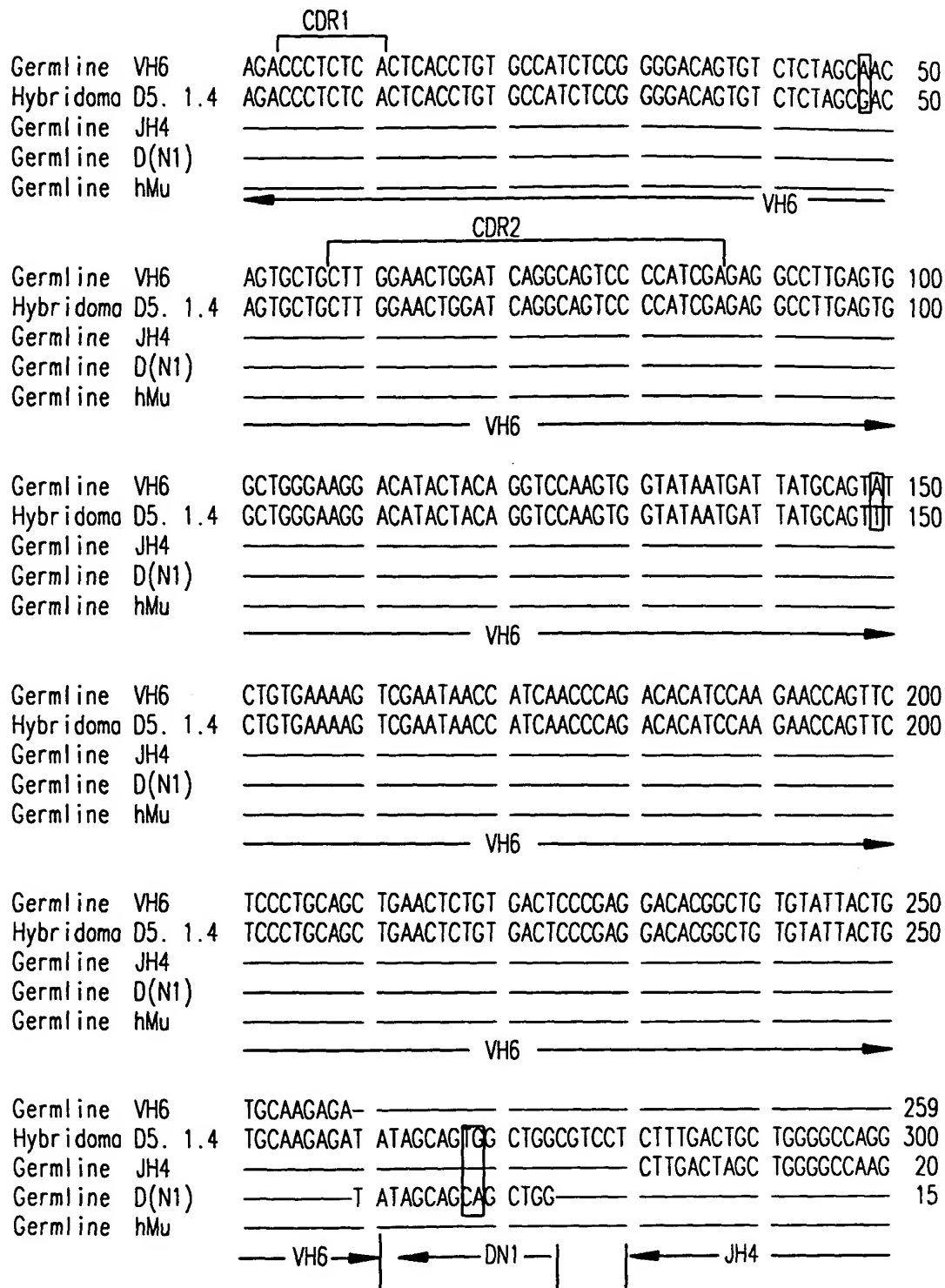


FIG.12A

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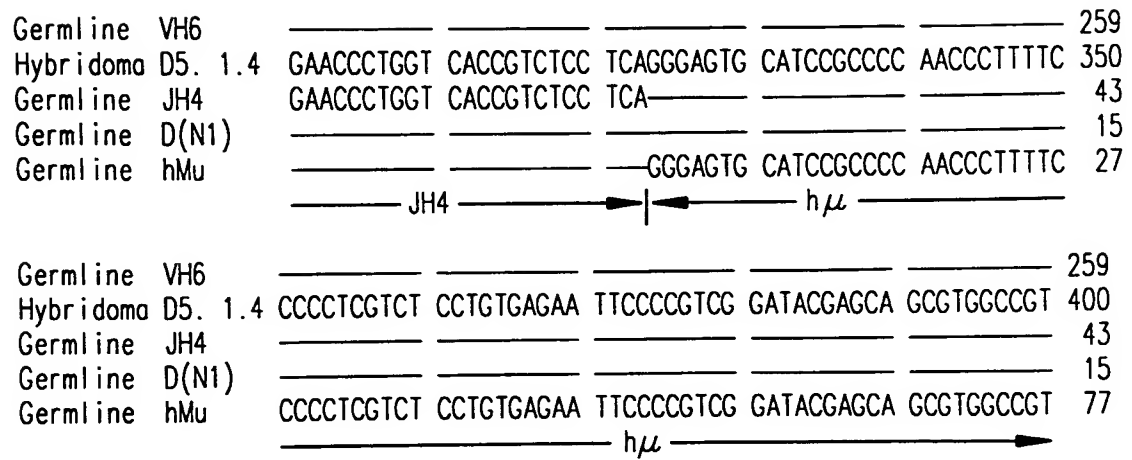


FIG.12B

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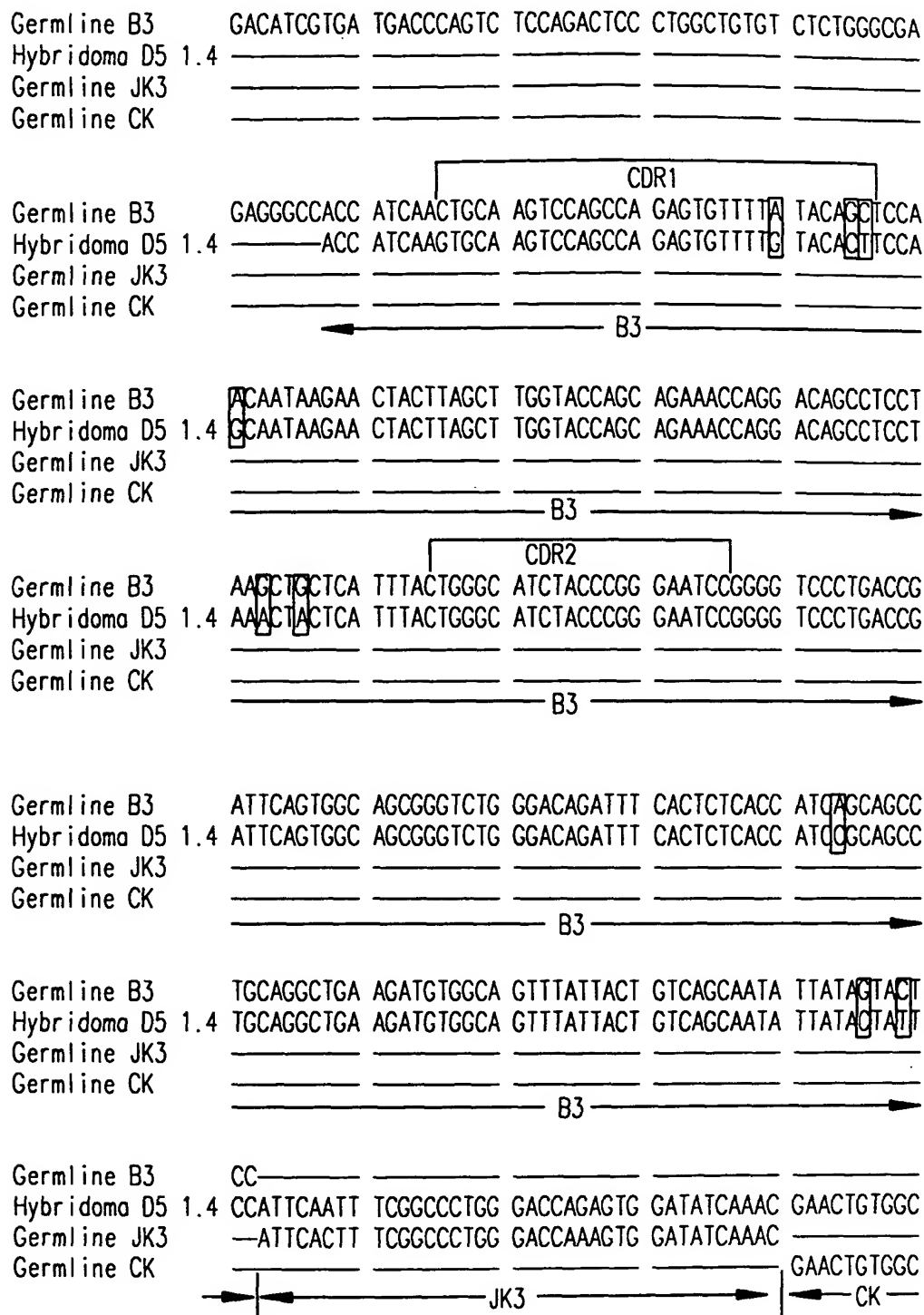


FIG.13A

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Germline B3 \_\_\_\_\_  
Hybridoma D5 1.4 TGCACCATCT GTCTTCATCT TCCCGCCATC TGATGAGCAG TTGAAATCTG  
Germline JK3 \_\_\_\_\_  
Germline CK TGCACCATCT GTCTTCATCT TCCCGCCATC TGATGAGCAG TTGAAATCTG  
\_\_\_\_\_ CK →

Germline B3 \_\_\_\_\_  
Hybridoma D5 1.4 GAACTGCCTC TGTGTGTGC CTGCTGAATA ACTTCTATCC CAGAGAGGCC  
Germline JK3 \_\_\_\_\_  
Germline CK GAACTGCCTC TGTGTGTGC CTGCTGAATA ACTTCTATCC CAGAGAGGCC  
\_\_\_\_\_ CK →

Germline B3 \_\_\_\_\_  
Hybridoma D5 1.4 AAAGTACAGT GGAAGGTGGA TAACGCCCTC CAATCGGGTT GGGGAAAAA  
Germline JK3 \_\_\_\_\_  
Germline CK AAAGTACAGT GGAAGGTGGA TAACGCCCTC CAATCGGGT- \_\_\_\_\_  
\_\_\_\_\_ CK →

FIG.13B

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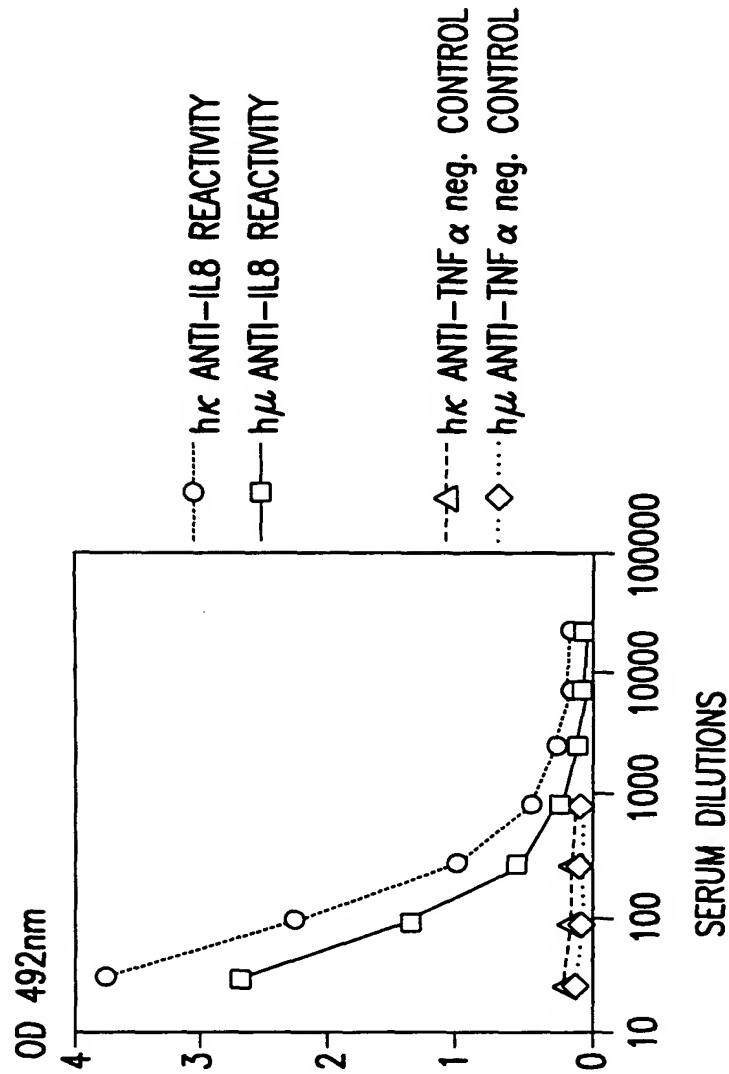


FIG.14

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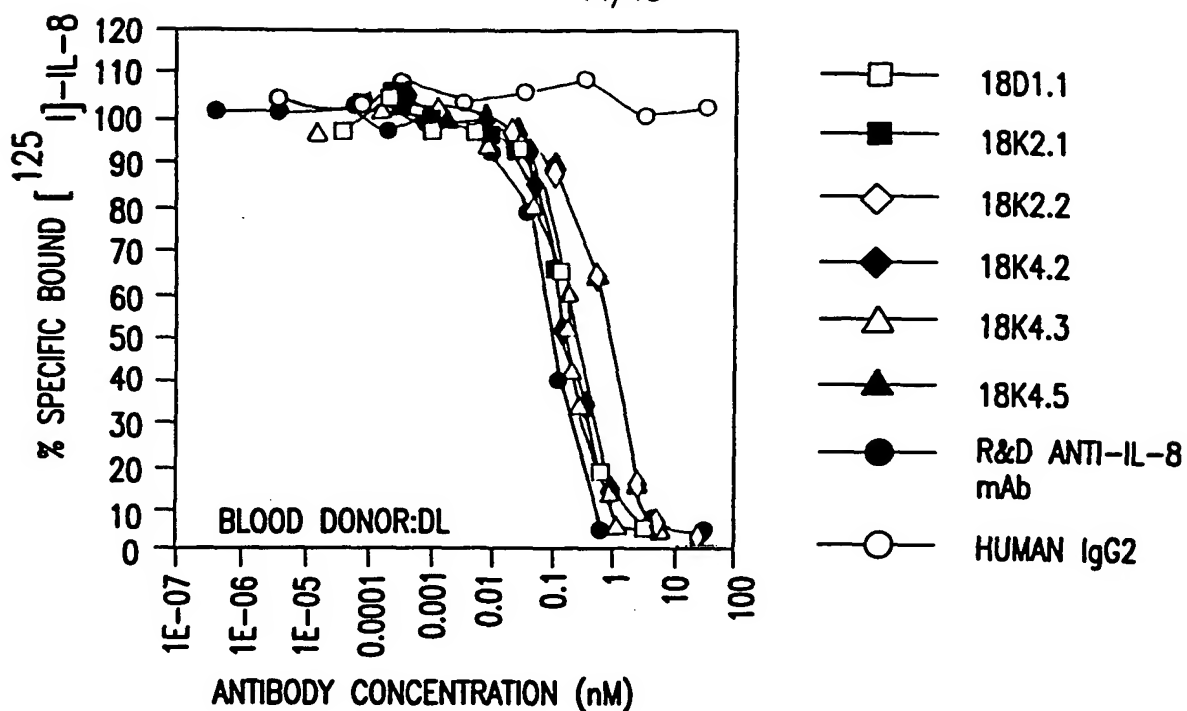


FIG.15A

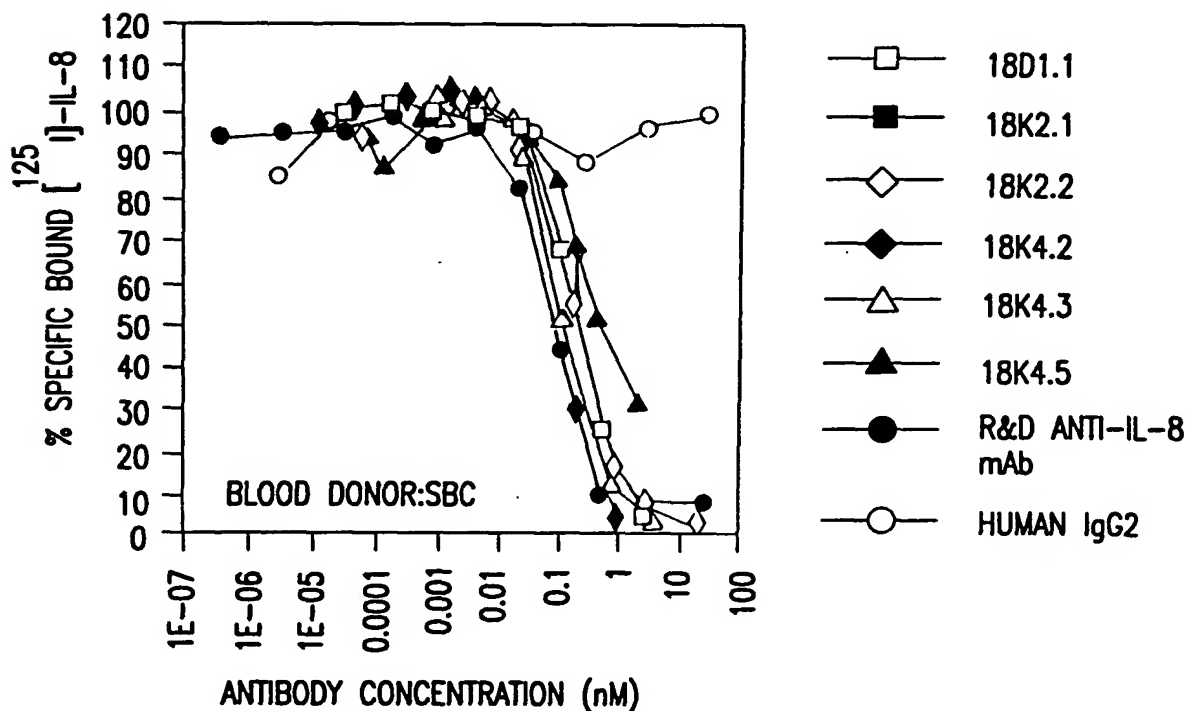


FIG.15B

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[CCTGTCCCTCACCTGCGCTGTCTATGGTGGGTCCCTTCAGTGGTTACTACTGGAGCTGGATCCGCC  
AGCCCCCAGGGAAGGGACTGGAGTGGATTGGGGAAATCAATCAAAGTGGAAGCACCAATTACAA  
CCCGTCCCTCAAGAGTCGAGTCATCATATCAATAGACACGTCCAAGACCCAGTTCTCCCTGAAGT  
TGAGCTCTGTGACCGCCGCGGACACGGCTGTGTATTACTGTGCGAGAGA][GACTCCCC][ATGCT  
TTTGATATCTGGGGCCAAGGGACAATGGTCACCGTCTCTTCAG]CCTCCACCAAGGGCCCATCGG  
TCTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGC(GC)GCCCTGGGCTGCCTG  
GTCAAGGACTACTTCC

## FIG. 16A

[CAGTCTCCATCCTCCCTGTCTGCATCTGTAGGCGACAGAGTCACCATCACTTGCCAGGCGAGTC  
AGGACATTAGTAAGTTTTTAAGTTGGTTTCAACAGAAACCAGGGAAAGCCCCTAAACTCCTGATC  
TACGGTACATCCTATTTGGAAACCGGGGTCCCATCAAGTTTCAGTGGAAGTGGATCTGGGACAGA  
TTTTACTCTCACCATCAGCAGCCTGCAGCCTGAAGATGTTGCAACATATTTCTGTAACAGNATG  
ATGATCTCCC][ATACACTTTTCGGCCCTGGGACCAAAGTGGATATCAAAC]GAACTGTGGCTGCAC  
CATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAAGTGCCTCTGTTGTGTGCC  
TGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTGGAAGGTGGATAACGCCC

## FIG. 16B

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[AGGTCCCTGAGACTCTCCTGTGCAGCCTCTGGATTACCTTCAGTAGCTATGGCATGCACTGGNT  
CCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGAAATATCATATGATGGAAGTAATAAA  
TACTATGTAGACTCCGTGAAGGGCCGACTCACCATCTCCAGAGACAATTCCAAGAACACGCTGT  
ATCTGCAAATGAACAGCCTGAGAGCTGAGGACACGGCTGTGTATTACTGTGCGAGAGA][CCGAC  
TGGGGAT][CTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCAG]CCTCCACCAAGG  
GCCCATCGGTCTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGC(GC)GGCCCT  
GGGCTGCCTGGTCCAAGGACTACTTCCCCGAACCGGTGACGGTGTGCGTGGAACTCAGGCGCTC  
TGACCAG

## FIG. 16C

[CTGACNCAGTCTCCAGACTCCCTGGCTGTGTCTCTGGGCGAGAGGGCCACCATCAACTGCAAGT  
CCAGCCAGAGTGTTTTATACATCTCCAACAATAAACTACTTAGCTTGGTACCAGCAGAAACCA  
GGACAGTCTCCTAAACTGCTCATTTACTGGGCATCTACCCGGAAATCCGGGGTCCCTGACCGATT  
CAGTGGCAGCGGGTCTGGGACAGATTTCACTCTCACCATCAGCAGCCTGCAGGCTGAAGATGTG  
GCAGTTTATTACTGTCAACAGTATTATGATACTCC][ATTCACTTTCGGCCCTGGGACCAAAGTGG  
ATATCAAAC]GAACTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAA  
TCTGGAAGTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTG  
GAAGGTGGNTAACGCCCCA

## FIG. 16D



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[TCCCTCACCTGCGCTGTCTATGGTGGGTCCTTCAGTGGTTACTACTGGACCTGGATCCGCCAGCC  
CCCAGGGAAGGGGCTGGAGTGGATTGGGGAAATCATTTCATCATGGAAACACCAACTACAACCCG  
TCCCTCAAGAGTCGAGTCTCCATATCAGTTGACACGTCCAAGAACCAGTTCTCCCTGACACTGAG  
CTCTGTGACCGCCGCGGACACGGCTGTGTATTACTGTGCGAGAGG][GGGAGCAGTGGCTGCG][T  
TTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCAG]CCTCCACCAAGGGCCCATCGGT  
CTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGC(GC)GGCCCTGGGCTGCCTG  
GTCAAGGACTACTTCCCCGAACCGGTGACGGTGTGCTGGAACCTCAGGCGCTCTGACCAGCGGC  
GTGCACACCTTCCCA

## FIG. 16E

[TGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCAGGC  
GAGTCAGGACATTAGTAACTATTTAAATTGGTATCAACAGAAAGCAGGGAAAGCCCCTAAGGTCC  
TGATCTACGCTGCATCCAATTTGGAAGCAGGGGTCCCATCAAGGTTCAGTGGAAGTGGATCTGGG  
ACAGATTTTACTTTCACCATCAGCAGCCTGCAGCCTGAAGATATTGCAACATATTATTGTCAACA  
CTATGATAATCT]A[CTCACTTTCGGCGGAGGGACCAAGGTAGAGATCAAAC]GAACTGTGGCTGC  
ACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGACTGCCTCTGTTGTGTG  
CCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTGGAAGGTGG

## FIG. 16F

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AGTCTCTGAAGATCTCCTGTAAGGGTTCTGGATACAGCTTTACCAGCTACTGGATCGGCTGGGTG  
CGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGATCATCTATCCTGGTGACTCTGATACCA  
GATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTCCATCAGCACCGCCTA  
CCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGACA][GGACGG  
TG][ACTCCTTTGACTACTGGGGCCAGGGAACCCCTGGTCACCGTCTCCTCAG]CCTCCACCAAGGG  
CCCATCGGTCTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGC(GC)GGCCCTG  
GGCTGCCTGGTCCAAGGACTACTTCCCCCGAACCGGTGACGGTGTCTGGAAGTCAAGGCGCTCT  
GACCAGCGGCGTGACACCTTCCCACTGCCA

FIG. 16G

TGTCTGCATCTATTGGAGACAGAGTCACCATCACTTGCCGGGCAAGTCAGAGCATTAGCAACTA  
TTTAAATTGGTATCAGCAGAAACCAGGGCAAAGCCCCTAAGTTCCTGATCTATGGTGCATCCAGT  
TTGGAAAGTGGGGTCCCATCANGTTTCACTGGCAGTGGATCTGGGACAGATTTCACTCTCACCAT  
CAGCAGCCTGCAACCTGNGGATTTTGCAACTTACTACTGTCAACAGAGTTACAGTAACCC]T[CTC  
ACTTTCGGCGGNGGGACCAANGTGGAGATCAAAC]GAACTGTGGCTGCACCATCTGTCTTCATCT  
TCCCGCCATCTGATGAGCAGTTGAAATCTGGAAGTGCCTCTGTTGTGTGCCTGCTGAATAACTTCT  
ATCCCAGAGAGGCCAAAGTACA

FIG. 16H